1. (currently amended) A process for removing SO_2, NO, and NO_2 from a gas stream comprising the steps of

a. oxidizing at least a portion of NO in a gas stream to NO_2 with an oxidizing means resulting in a mole ratio of SO_2 to NO_2 of at least 2.5 to 1, followed by

b. scrubbing at least a portion of SO_2, NO, and NO_2 from the gas stream with a scrubbing solution

comprising ammonia, and

having a pH between 6 and 8, and

c. removing at least a portion of any ammonia aerosols generated from the scrubbing step from the gas stream with an aerosol removal means.

2. The process of claim 1, wherein said oxidizing means is an electrical discharge reactor.

3. The process of claim 2, wherein said electrical discharge reactor is a dielectric barrier discharge reactor.

4. The process of claim 3, further comprising the step of oxidizing at least a portion of the NO to HNO_3 with said dielectric barrier discharge reactor.

5. (canceled)

6. The process of claim 1, wherein said oxidizing step is adapted to result in a mole ratio of SO_2 to NO_2 of at least four to one.

7. The process of claim 1, said scrubbing solution

comprising ammonia, ammonium sulfite, ammonium sulfate, and water, and

having a pH between 6 and 8.

8. The process of claim 1, wherein said aerosol removal means is a wet electrostatic precipitator.

9. The process of claim 1, wherein said scrubbing step results in the formation of ammonium sulfate, the process further comprising the step of withdrawing ammonium sulfate from the scrubbing solution.

10. The process of claim 4, wherein said scrubbing step results in the formation of ammonium nitrate, the process further comprising the step of withdrawing ammonium nitrate from the scrubbing solution.

11. A process for removing SO_2, NO, NO_2, and Hg from a gas stream comprising the steps of

a. oxidizing at least a portion of the NO in a gas stream to NO_2, and at least a portion of the Hg in a gas stream to HgO, with an oxidizing means, followed by

b. scrubbing at least a portion of the SO_2, NO, and NO_2 from the gas stream with a scrubbing solution

comprising ammonia, and

having a pH between 6 and 8, and

c. removing at least a portion of any ammonia aerosols generated from the scrubbing step, and HgO, from the gas stream with an aerosol removal means.

12. The process of claim 11, wherein said oxidizing means is an electrical discharge reactor.

13. The process of claim 12, wherein said electrical discharge reactor is a dielectric barrier discharge reactor.

14. The process of claim 11, wherein said aerosol removal means is a wet electrostatic precipitator.

15. The process of claim 11, said scrubbing solution

comprising ammonia, ammonium sulfite, ammonium sulfate, and water, and

having a pH between 6 and 8.

16. The process of claim 15, wherein said scrubbing step results in the formation of ammonium sulfate, the process further comprising the step of withdrawing ammonium sulfate from the scrubbing solution.

17. (withdrawn)

18. (withdrawn)

19. (withdrawn)

20. (withdrawn)

21. (withdrawn)

22. (withdrawn)

23. (withdrawn)

24. (withdrawn)

25. (withdrawn)

26. (withdrawn)

27. (withdrawn)

28. (withdrawn)

29. (withdrawn)